

FIG. 1

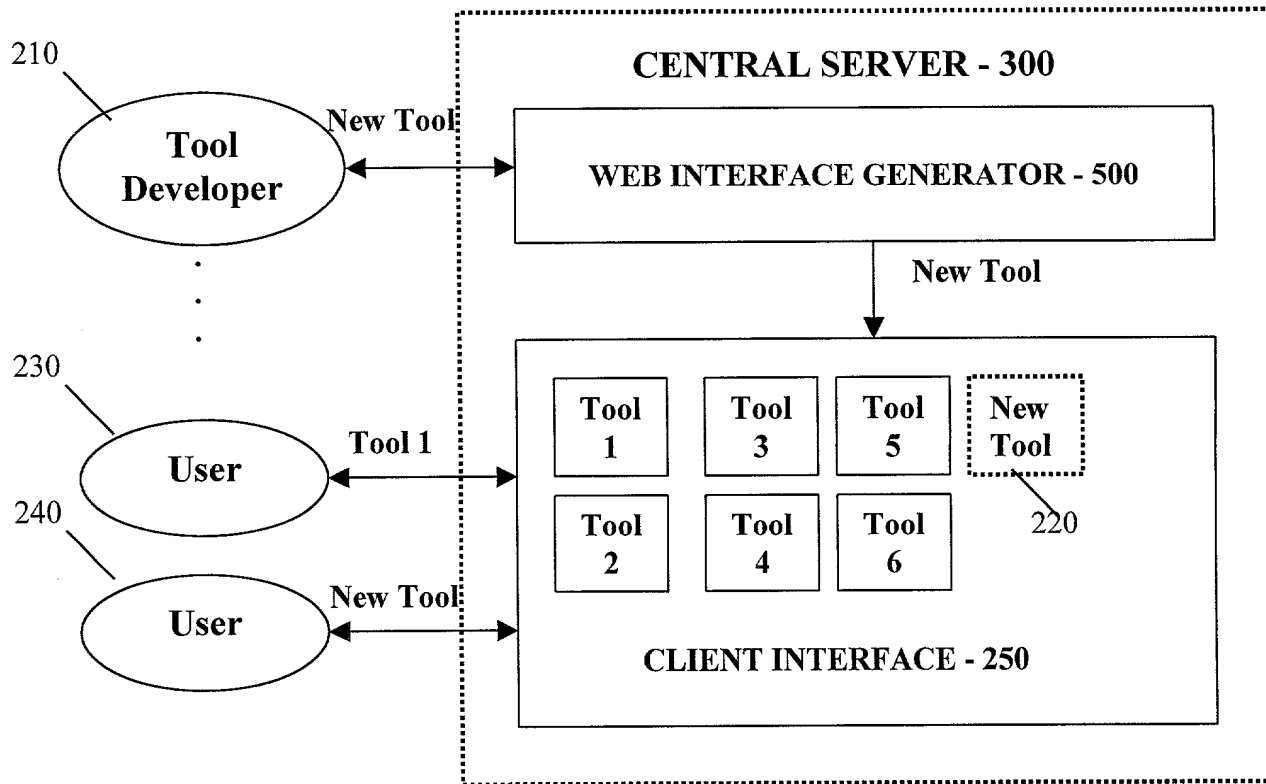


FIG. 2

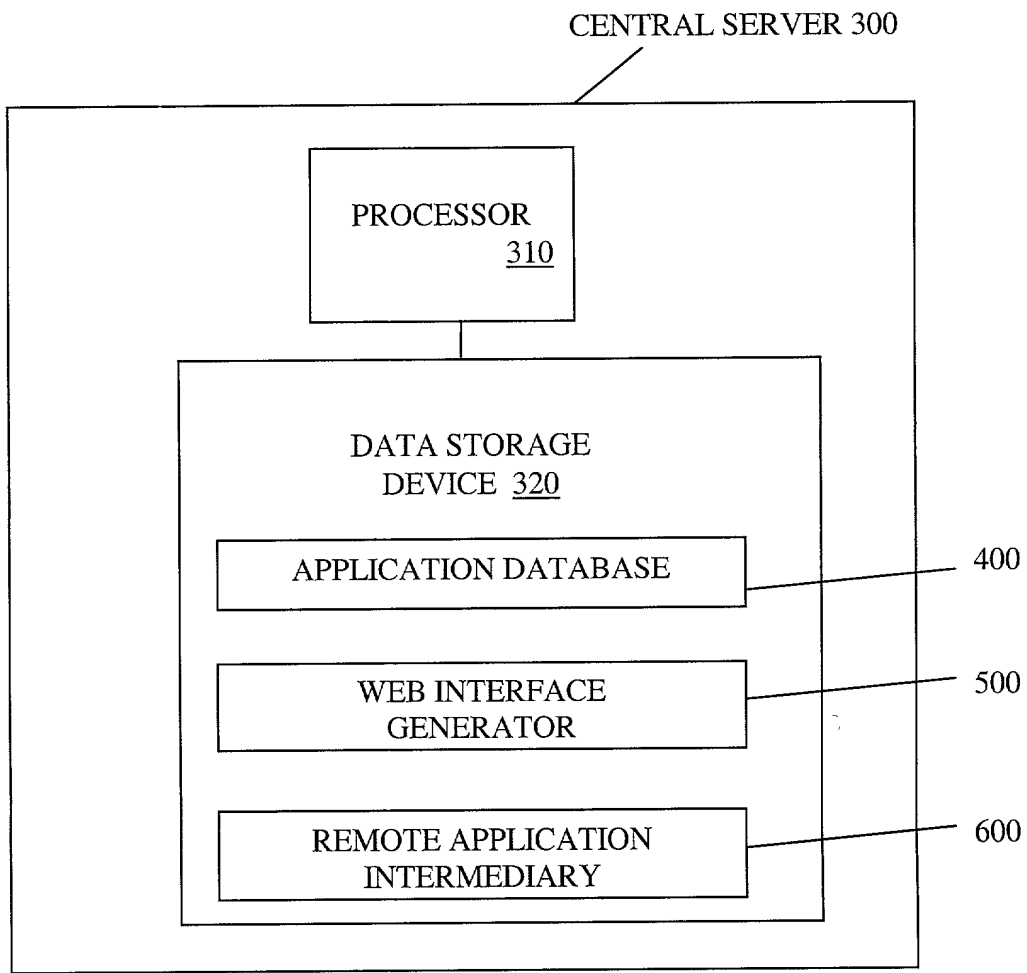


FIG. 3

APPLICATION DATABASE 400
(OBJECT TEMPLATE)

```
Class point_tool
{
410 {
    var name;
    var version;
    var location;
    array option1[];
    array option2[];

    // each of the following functions when invoked by the administrator add, delete and
    // modify respectively the software application.
    public:
420 {
        function add_tool();
        function delete_tool();
        function modify_tool();

        // the following function when invoked by the client executes the tool with the specified
        // parameters.
430 {
            function use_tool(var,var,var....);
        };
    };
};
```

FIG. 4

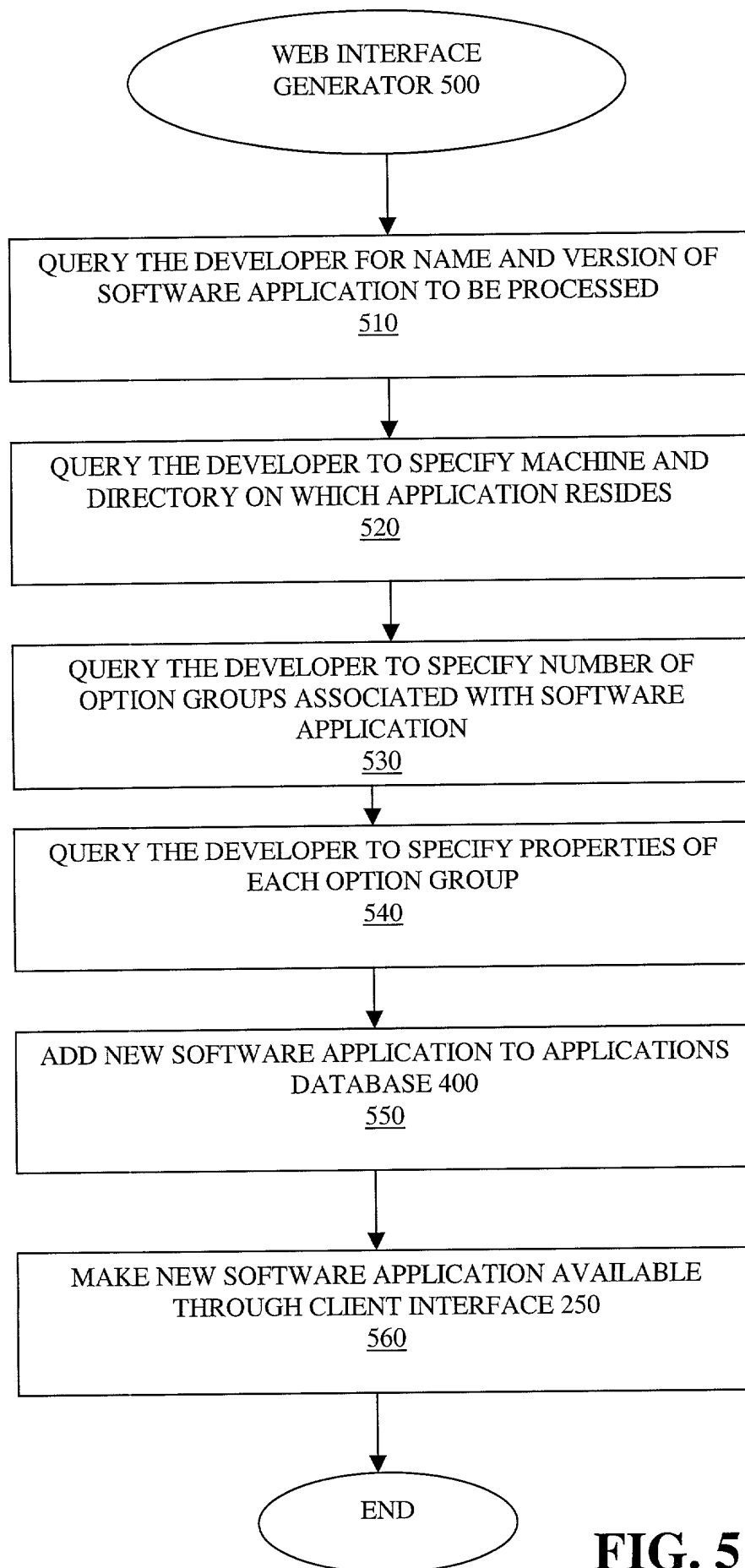


FIG. 5

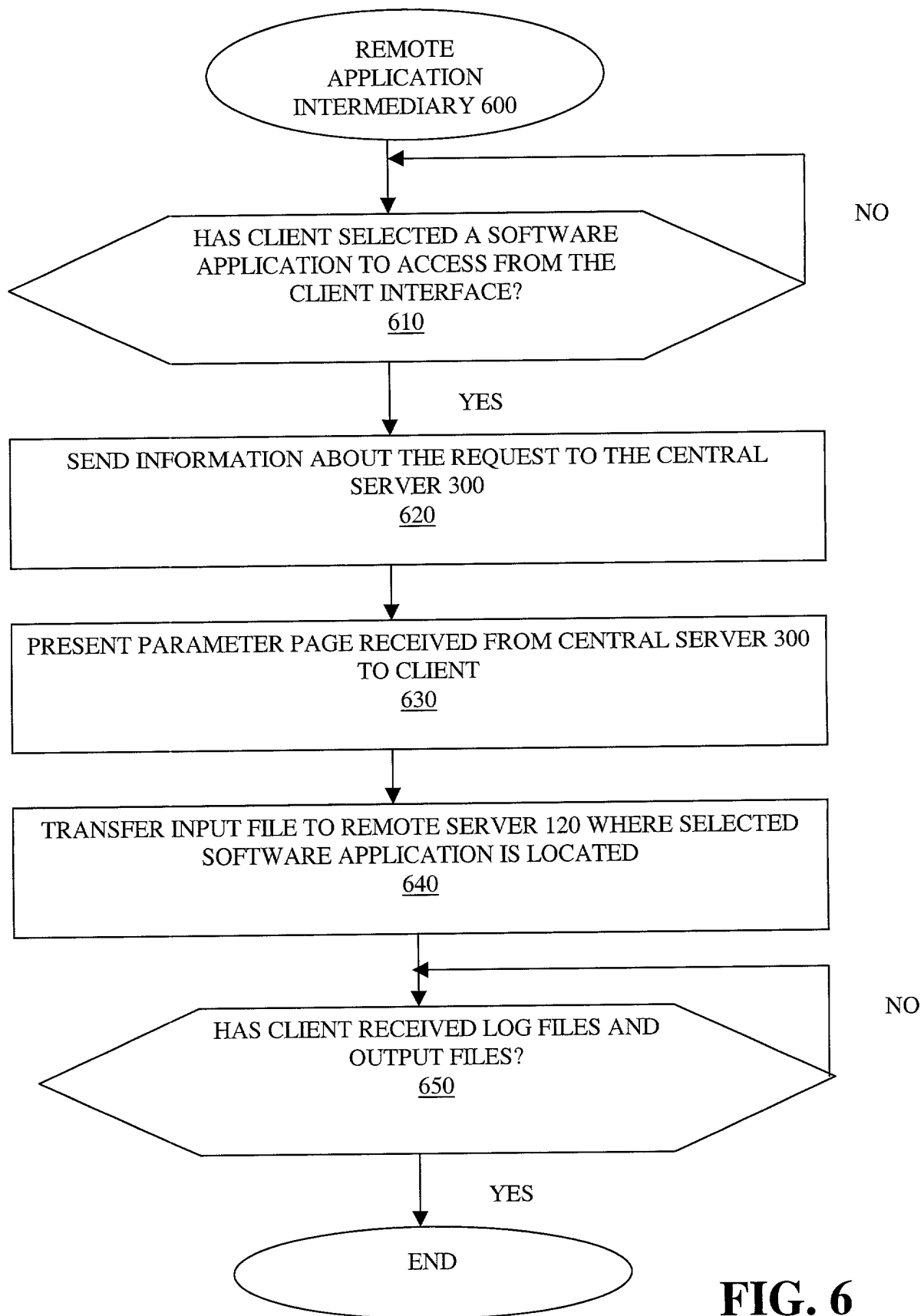


FIG. 6

EXEMPLARY APPLICATION OPTION LIST - 700

Option Name	Constraints
-E, -S, -c	<ul style="list-style-type: none">➤ Cannot be used together.➤ All need atleast one input file
-D, -I, -U, -xc, -o	<ul style="list-style-type: none">➤ can be used together➤ can be used with any other option➤ Need exactly one input parameter
-g, -O1	<ul style="list-style-type: none">➤ cannot be used together➤ No input parameters expected
-Wj, -Wall	<ul style="list-style-type: none">➤ cannot be used together➤ No input parameters expected

FIG. 7

Addition of a new Point Tool

The general syntax of the point tools is as follows

tool_name <option_type1> <option_type2>..... <file_type>

Name of point tool 810

Version 820

Machine specification 830

IP Address of the Server 840

Location 850
eg. tools/script.php

Number of options 860

FIG. 8

Addition cont...

Initialize the Point Tool with the following data :
Number of Parameters at time of execution for Option 1 :

- ☒ Exactly one parameter
 - ☐ One or more than one parameter
 - ☐ None or more parameters
- } 910

Enter the Valid parameters for this option with a brief description of in seperate lines

eg. -o For optimization

```
-E preprocess only  
-S generate assembly file  
-c generate object file
```

} 950

Which of the following apply for the file input :

- ☐ Exactly one file
 - ☒ One or more files
 - ☐ None or more files
- } 970
- next** **cancel**

FIG. 9

Point Tool Execution cont...

Choose one of the following options:

- ☐ -E preprocess only
- ☒ -S generate assembly file
- ☐ -c generate object file

Select any of the following options that apply:

- ☒ -D define macro
- ☐ -I additional include directories
- ☐ -U undefine macro
- ☐ -xc assume c source file
- ☐ -o output file

Select one of the following options that apply:

- ☒ -g generate debug info
- ☐ -O1 enable optimization (level 1)

Choose one of the following options.

- ☐ -Wj suppress warnings
- ☒ -Wall generates all warnings

next **cancel**

1050

1000



FIG. 10

Point Tool Execution cont...

File Uploads

Attach File for Parameter -S

limit.c

Attach File for Parameter -D

COMMAND_4

Attach Input File

vector.c

scalar.c

Runtime output diverted to a file ? ☒ Yes ☐ No

1150

1100



FIG. 11